

TABLE OF CONTENTS

Abstract	<i>i</i>
Table of Contents	<i>v</i>
List of Illustrations	<i>viii</i>
1.0 DESCRIPTION OF THE UNDERTAKING	1
1.1 Project Background	1
1.2 Description of Preferred Alternative	4
1.3 Public Involvement in the Section 106 Process	6
2.0 DESCRIPTION OF STEPS TO IDENTIFY HISTORIC PROPERTIES	9
2.1 Area of Potential Effect	9
2.2 Historic Structures	9
2.3 Archaeology	10
3.0 DESCRIPTION OF AFFECTED PROPERTIES	13
3.1 CRS No. N14388, Shahan Farm, 389 Strawberry Lane	13
3.2 CRS No. N05225, B.F. Hanson House, 1102 Middletown-Warwick Road	17
3.3 CRS No. N05221, C. Polk House Estate, 929 Middletown-Warwick Road	20
3.4 CRS No. N00113, Rumsey Farm, 841 Middletown-Warwick Road	20
3.5 CRS No. N00112, Summerton, 840 Middletown-Warwick Road	23
3.6 CRS No. N00118, Hedgelawn, 772 Middletown-Warwick Road	27
3.7 CRS No. N00117, Cochran Grange, 704 Middletown-Warwick Road	30
3.8 CRS No. N00106, The Maples, 1023 Bunker Hill Road	30
3.9 CRS No. N05148, Rosedale, 1143 Bunker Hill Road	33
3.10 CRS No. N00107, S. Holton Farm, 2010 Choptank Road	37
3.11 CRS No. N00109, Choptank, 1542 Choptank Road	40
3.12 CRS No. N00427, Woodside, 1358 Choptank Road	43
3.13 CRS No. N05123, Governor Benjamin T. Biggs Farm, 1196 Choptank Road	43
3.14 CRS No. N05146, Armstrong-Walker House, 5036 Summit Bridge Road	47
3.15 CRS No. N03930, Achmester, 617 Marl Pit Road	47
3.16 CRS No. N00121, Weston, 4677 Summit Bridge Road	51
3.17 CRS No. N05132, Lovett Farm, 1405 Cedar Lane Road	54
3.18 CRS No. N05131, T.J. Houston Farm, 1306 Cedar Lane Road	54
3.19 CRS No. N12636, State Bridge Number 383, Jamison Corner Road	57
3.20 CRS No. N05195, J. Houston House, 1000 Jamison Corner Road	61
3.21 CRS No. N05244, Fairview, 350 Hyetts Corner Road	64
3.22 CRS No. N03947, Idalia Manor, 1870 South Dupont Highway	64
4.0 DESCRIPTION OF THE UNDERTAKING'S EFFECTS ON HISTORIC PROPERTIES	70
4.1 Physical Effects	70
4.2 Audible Effects	70
4.3 Visual Effects	71
4.4 Atmospheric Effects	74
4.5 Secondary and Cumulative Effects	74
4.6 Project Effects on Historic Properties	74
4.6.1 CRS No. N14388, Shahan Farm, 389 Strawberry Lane	75

4.6.2	CRS No. N05225, B.F. Hanson House, 1102 Middletown-Warwick Road	77
4.6.3	CRS No. N05221, C. Polk House Estate, 929 Middletown-Warwick Road	79
4.6.4	CRS No. N00113, Rumsey Farm, 841 Middletown-Warwick Road.....	79
4.6.5	CRS No. N00112, Summerton, 840 Middletown-Warwick Road.....	83
4.6.6	CRS No. N00118, Hedgelawn, 772 Middletown-Warwick Road	83
4.6.7	CRS No. N00117, Cochran Grange, 704 Middletown-Warwick Road	86
4.6.8	CRS No. N00106, The Maples, 1023 Bunker Hill Road.....	86
4.6.9	CRS No. N05148, Rosedale, 1143 Bunker Hill Road	89
4.6.10	CRS No. N00107, S. Holton Farm, 2010 Choptank Road.....	89
4.6.11	CRS No. N00109, Choptank, 1542 Choptank Road.....	92
4.6.12	CRS No. N00427, Woodside, 1358 Choptank Road	92
4.6.13	CRS No. N05123, Governor Benjamin T. Biggs Farm, 1196 Choptank Road	95
4.6.14	CRS No. N05146, Armstrong-Walker House, 5036 Summit Bridge Road.....	95
4.6.15	CRS No. N03930, Achmester, 617 Marl Pit Road	99
4.6.16	CRS No. N00121, Weston, 4677 Summit Bridge Road	99
4.6.17	CRS No. N05132, Lovett Farm, 1405 Cedar Lane Road	99
4.6.18	CRS No. N05131, T.J. Houston Farm, 1306 Cedar Lane.....	101
4.6.19	CRS No. N12636, State Bridge Number 383, Jamison Corner Road.....	101
4.6.20	CRS No. N05195, J. Houston House, 1000 Jamison Corner Road	103
4.6.21	CRS No. N05244, Fairview, 350 Hyetts Corner Road	103
4.6.22	CRS No. N03947, Idalia Manor, 1870 South Dupont Highway.....	105
5.0	EXPLANATION OF WHY THE CRITERIA OF ADVERSE EFFECT WERE FOUND APPLICABLE.....	107
5.1	The Criteria of Adverse Effect.....	107
5.2	Resources Not Adversely Affected by the Preferred Alternative	108
5.3	Resources Adversely Affected by the Preferred Alternative	109
5.3.1	(iv) Changes of the character of a historic property's use or physical features within the property's setting that contribute to its historic significance	110
5.3.2	(v) Introduction of visual, atmospheric, or audible elements that diminish the integrity of the property's significant historic features	111
5.4	Criteria of Adverse Effect Not Applicable to the Preferred Alternative.....	112
5.4.1	(i) Physical destruction of or damage to all or part of the property	112
5.4.2	(ii) Alteration of a property, including restoration, rehabilitation, repair, maintenance, stabilization, hazardous material remediation, and provision of handicapped access, that is not consistent with the Secretary's Standards for the Treatment of Historic Properties (36 CFR Part 68) and applicable guidelines...	112
5.4.3	(iii) Removal of the property from its historic location	113
5.4.4	(vi) Neglect of a property that causes its deterioration, except where such neglect and deterioration are recognized qualities of a property of religious and cultural significance to an Indian tribe or Native Hawaiian organization.....	113
5.4.5	(vii) Transfer, lease, or sale of property out of federal ownership or control without adequate and legally enforceable restrictions or conditions to ensure long- term preservation of the property's historic significance.....	113
5.5	Measures to Minimize Adverse Effects	113
5.6	Mitigation Measures.....	115
5.6.1	Adverse Visual Effects.....	115

5.6.2	Adverse Audible Effects	115
5.6.3	Adverse Secondary and Cumulative Effects.....	115
5.7	Archaeological Concerns	116
5.8	General Issues	116
6.0	VIEWS OF THE SHPOS AND THE PUBLIC	117
6.1	Comments of the DE and MD SHPOs.....	117
6.2	Comments of the Public.....	118

Bibliography

Appendices

Appendix A: Correspondence from DE SHPO

Appendix B: Correspondence with MD SHPO

Appendix C: Memorandum of Agreement

LIST OF ILLUSTRATIONS

Figures

Figure 1	Project Location	2
Figure 2	Green North Alternative, Area of Potential Effect, and Historic Properties.....	3
Figure 3	Shahan Farm CRS No N14388	15
Figure 4	Cross-Section Illustrating BF Hanson House at STA 189+00 CRS No N05225	18
Figure 5	Cross-section Illustrating C Polk House Estate at STA 231+00 CRS No N05221	21
Figure 6	Cross -Section Illustrating Rumsey Farm at STA 251+00 CRS No N00113	24
Figure 7	Cross-Section Illustrating Summerton at STA 250+00 CRS No N00112.....	26
Figure 8	Hedgelawn CRS No N00118	28
Figure 9	Cochran Grange CRS No N00117	31
Figure 10	Cross-Section Illustrating The Maples at STA 308+00 CRS No N00106.....	34
Figure 11	Cross-section Illustrating Rosedale at STA 315+00CRS No N05148.....	36
Figure 12	S Holton Farm CRS No N00107.....	38
Figure 13	Cross-Section Illustrating Choptank at STA 178+00 CRS No N00109	41
Figure 14	Woodside CRS No N00427	44
Figure 15	Cross-Section Illustrating Governor Benjamin T Biggs Farm at STA 242+00 CRS No N05123	46
Figure 16	Cross-Section Illustrating Armstrong-Walker House at STA 405+00 CRS No N05146.....	48
Figure 17	Achmester CRS No N03930	50
Figure 18	Weston CRS No N00121	52
Figure 19	Lovett Farm CRS No N05132	55
Figure 20	Cross-Section Illustrating TJ Houston Farm at STA 522+00 CRS No N05131	58
Figure 21	State Bridge Number 383 CRS No N12636	60
Figure 22	J Houston House CRS No N05195	62
Figure 23	Fairview CRS No N05244	65
Figure 24	Cross-Section Illustrating Idalia Manor at STA 759+00 CRS No N03947	68

Photographs

Photograph 1	CRS No. N14388, Shahan Farm, barn complex, view facing northwest.....	16
Photograph 2	CRS No. N05225, B. F. Hanson House, view facing southeast	19
Photograph 3	CRS No. N05221, C. Polk House Estate, view facing north	22
Photograph 4	CRS No. N00113, Rumsey Farm, view facing northwest	25
Photograph 5	CRS No. N00112, Summerton, view facing northeast	25
Photograph 6	CRS No. N00118, Hedgelawn, view facing southeast	29
Photograph 7	CRS No. N00117, Cochran Grange, view facing northwest.....	32
Photograph 8	CRS No. N00106, The Maples, view facing northwest.....	35
Photograph 9	CRS No. N05148, Rosedale, view facing north	35
Photograph 10	CRS No. N00107, The S. Holton Farm, view facing northeast.....	39

Photograph 11	CRS No. N00109, Choptank, view facing southeast	42
Photograph 12	CRS No. N00427, Woodside, view facing northeast.....	45
Photograph 13	CRS No. N05123, Governor Benjamin T. Biggs Farm, view facing northeast.	45
Photograph 14	CRS No. N05146, Armstrong-Walker House, view facing northwest	49
Photograph 15	CRS No. N03930, Achmester, view facing north.....	49
Photograph 16	CRS No. N00121, Weston, view facing northeast.....	53
Photograph 17	CRS No. N05132, Lovett Farm, view facing west	56
Photograph 18	CRS No. N05131, T. J. Houston Farm, view facing northwest.....	59
Photograph 19	CRS No. N12636, State Bridge Number 383, view facing northwest.....	59
Photograph 20	CRS No. N05195, J. Houston House, view facing northeast.....	63
Photograph 21	CRS No. N05244, Fairview, view facing southwest	66
Photograph 22	CRS No. N03947, Idalia Manor, view facing east.....	69
Photograph 23	View from CRS No. N14388, Shahan Farm, facing northwest to the Preferred Alternative's overpass at Strawberry Lane from the northwest corner of the granary. Note the tree line that will shield the property from a view of the overpass.....	76
Photograph 24	View from CRS No. N05225, B. F. Hanson House, facing northwest to existing U.S. 301 and the Preferred Alternative from the property's front yard	78
Photograph 25	View from CRS No. N05221, C. Polk House Estate, facing northwest to the Preferred Alternative. The Preferred Alternative will block the property's view of the poultry farm in the rear of the photograph.....	80
Photograph 26	View from CRS No. N05221, C. Polk House Estate, facing northeast to the proposed Levels Road Interchange from the farm complex	81
Photograph 27	View from CRS No. N00113, Rumsey Farm, facing northwest to Levels Road Interchange from the northeastern corner of the dwelling. The new interchange will be partially obscured by the tree line separating the farm complex from the agricultural fields	81
Photograph 28	View from CRS No. N00113, Rumsey Farm, facing northeast to the Levels Road access road from the northern farm lane. The post-1962 dwelling will be removed as part of the new access road's construction	82
Photograph 29	View from CRS No. N00112, Summerton, facing north to the new Levels Road interchange from the property's front yard. The new interchange will be located in the far background of this photograph	84
Photograph 30	View from CRS No. N00112, Summerton, facing northeast to the new Levels Road access road from the farm complex. The new road will be located in the photograph's foreground. Cochran Grange is visible in the background of the photograph	84
Photograph 31	View from CRS No. N00118, Hedgelawn, facing northwest to Levels Road Interchange from the property's driveway. Note the existing, modern agricultural buildings shielding the view from the property to the new interchange	85
Photograph 32	View from CRS No. N00118, Hedgelawn, facing southwest to the Levels Road Ramp. Note the intervening line of evergreens that shields the property from view of Levels Road.....	87

Photograph 33	View from CRS No. N00117, Cochran Grange, facing northwest to the Preferred Alternative. Notice the intervening distance between the property and the new roadway which will be located in the far background of this photograph	87
Photograph 34	View from CRS No. N00106, The Maples, facing northwest to the Preferred Alternative from the northern edge of the National Register boundary. Note fenceline associated with Rosedale to the left in the background.....	88
Photograph 35	View from CRS No. N00106, The Maples, facing northwest to the Bunker Hill Road overpass from the front yard, adjacent to the dwelling	88
Photograph 36	View from CRS No. N05148, Rosedale, facing east to Choptank Road and the area of the Preferred Alternative. The alternative will be located to the rear of the photograph, behind Choptank Road.....	90
Photograph 37	View from front yard of CRS No. N05148, Rosedale, facing southeast to the Bunker Hill Road overpass which will be located to the rear of the photograph	90
Photograph 38	View from CRS No. N00107, S. Holton Farm, facing southeast to the Preferred Alternative. The mainline will be located between the farm and the tree line visible in the background	91
Photograph 39	View from the yard of CRS No. N00107, S. Holton Farm, facing northeast to the split of the ramp that will connect the northbound U.S. 301 mainline to the northbound Spur Road	91
Photograph 40	View from CRS No. N00109, Choptank, facing northeast to the Spur Road. The roadway will be located beyond the tree line visible in the photograph.....	93
Photograph 41	View from CRS No. N00109, Choptank, facing east to the Old School House Road overpass. The overpass will not be higher than the trees and will only be visible through the gap in the tree line created by Old School House Road.....	93
Photograph 42	View from CRS No. N00427, Woodside, facing east to the Spur Road from the rear of the farm complex. Note the tree and brush lines that will screen the Spur Road from the viewshed of the property.....	94
Photograph 43	View from CRS No. N05123, Governor Benjamin T. Biggs Farm, facing east to the Spur Road from the eastern edge of the National Register boundary. The Spur Road will be located between the tree line visible in the center of the photograph and the dense tree line depicted in the background	96
Photograph 44	View from CRS No. N05123, Governor Benjamin T. Biggs Farm, facing northeast to the Spur Road interchange with the Bethel Church Road extension from the eastern National Register boundary. The interchange will be located between the line of vegetation located in the foreground and the Summit Bridge Farms Subdivision located in the background	96
Photograph 45	View from CRS No. N05123, Governor Benjamin T. Biggs Farm, facing north to the Bethel Church Road extension from the northeastern corner of the National Register boundary. The extension will be located between the line of vegetation and the dwelling shown in the far background of the photograph ...	97
Photograph 46	View from rear of the property associated with CRS No. N05146, Armstrong-Walker House facing northwest to the Armstrong Corner Road overpass. The post-1962 dwelling visible between the posts will be within the path of the Preferred Alternative and will be removed	97

Photograph 47	View from the side yard at the CRS No. 05146, Armstrong-Walker House facing north to the ramp to existing US 301. The ramp will be located on the opposite side of Armstrong Corner Road	98
Photograph 48	View from CRS No. N03930, Achmester, facing north to the Preferred Alternative. The tree line, which also serves at the northern National Register boundary, will visually screen the mainline from view	100
Photograph 49	View from CRS No. N00121, Weston, facing southeast to the Preferred Alternative from the southern edge of the farm complex. The tree line and vegetation will visually screen the mainline from view.....	100
Photograph 50	View from CRS No. N05132, Lovett Farm facing west to the Preferred Alternative from the farm complex. The mainline will be located in the far background of the photograph and will pass behind the treeline along the right side	102
Photograph 51	View from CRS No. N05131, T. J. Houston Farm facing northwest to the Preferred Alternative from the western edge of the farm complex. The mainline will be located between the treeline and the farm complex	102
Photograph 52	View from CRS No. N05195, J. Houston House facing northwest to the Jamison Corner Road interchange with the Preferred Alternative. The tree line and intervening distance will largely screen the interchange from view of the property	104
Photograph 53	View from CRS No. N05244, Fairview facing northwest to Hyetts Corner Road overpass from the property's driveway. The overpass will be in the location of the tree line visible in the background and will not be visible from the property due to topography and intervening distance.....	104
Photograph 54	View from CRS No. 03947, Idalia Manor, facing southwest to point where the proposed northbound on-ramp will tie into existing SR 1 north.....	106

Tables

Table 1	Description of the Preferred Alternative	5
Table 2	Summary of Public Workshops	8
Table 3	Historic Properties in the APE for the Green North Alternative	14
Table 4	Summary of Effect Assessment for Historic Properties	72
Table 5	Summary of Noise Impact Analysis	73